

REMARKS

Claims 1-20 are pending in this application. By this Amendment, claims 1-3, 7, 9, 11, 13, 15 and 19 are amended. Claims 4, 6, 8, 10, 12, 14, 16, 18 and 20 are withdrawn. No new matter is introduced. Reconsideration of the application based on the above amendments and the following remarks is respectfully requested.

The Office Action rejects claims 1-3, 15, 17 and 19 under 35 U.S.C. §102(b) over Matsunaga et al. (U.S. Publication No. 2001/0042141). This rejection is respectfully traversed.

The Office Action asserts that Matsunaga discloses all the limitations of claims 1 and 19. However, Applicants respectfully submit that Matsunaga does not disclose "a first address and a first element number, the first address being stored in a first page table element that is being processed at a point at which a bus reset occurs ... the first element number being an element number of the first page table element ... a second address based on the first element number, the second address being stored in a second page table element ... the second page element having the same element number as the first element number ... an address comparison section which compares the first address and the second address," as recited in claim 1 and as similarly recited in claim 19. Matsunaga discloses comparing a start address (first address) and the start address (second address) of transfer data that appears after the bus reset occurred, paragraph [106]. Further, Matsunaga discloses "processing to compare the content of an ORB that was transferred in from the initiator before the bus reset occurred and the content of an ORB that was transferred in from the initiator after the bus reset occurred," paragraph [0104] and Matsunaga discloses "various types of information are compared during the comparison of ORB content For example, a page table existence flag P, data size, operation codes) and data ... identification information for identifying that ORB ... ," paragraph [0132].

However, Matsunaga does not disclose a first address and a second address, the first address and the second address having the same element number as the first element number, the first address being stored in a first page table element that is being processed at a point at which a bus reset occurs, as recited in claims 1 and similarly recited in claim 19. Thus, Matsunaga does not disclose the features recited in claims 1 and 19. Withdrawal of the rejection to claims 1 and 19 under 35 U.S.C. §102(b) is respectfully solicited.

Claims 2, 3, 15 and 17 ultimately depend from claim 1. Thus, Matsunaga does not disclose the features recited in claims 2, 3, 15 and 17 as discussed above. Withdrawal of the rejection to claims 1, 2, 3, 15, 17 and 19 under 35 U.S.C. §102(b) is respectfully solicited.

The Office Action rejects claim 5 under 35 U.S.C. §103(a) over Matsunaga in view of Bastiani et al. (U.S. Patent No. 6,636,922); claims 7 and 9 under 35 U.S.C. §103(a) over Matsunaga in view of Bastiani and further in view of Ogawa (JP 01106254); and claims 11 and 13 under 35 U.S.C. §103(a) over Matsunaga in view of Bastiani in view of Ogawa and further in view of Graziano (U.S. Patent No. 5,758,075). These rejections are respectfully traversed.

The Office Action admits that Matsunaga does not disclose "a command processing section instructs a start of DMA transfer through the second bus ... ," but asserts that Bastiani supplies the missing subject matter. Bastiani discloses an advanced serial protocol for peripheral devices. However, Applicants respectfully submit that Bastiani does not disclose or suggest a bus reset or a page table with first or second addresses. Thus, Bastiani does not disclose or suggest the subject matter of claim 1 and 19.

The Office Action admits that the combination of Matsunaga and Bastiani does not disclose or suggest "the command abort section controls dummy data transfer to or from the device connected to the second bus until the completion of the DMA transfer," but asserts that that Ogawa supplies the missing subject matter. Ogawa discloses a flag which when set up

dummy data is transferred one by one byte until the end of the DMA operation, see abstract. However, Applicants respectfully submit that Ogawa does not disclose or suggest a bus reset or a page table with first or second addresses. Thus, Ogawa does not disclose or suggest the subject matter of claim 1 and 19.

The Office Action admits that the combination of Matsunaga, Bastiani and Ogawa does not disclose or suggest "the data transfer control section further comprises a pointer management section which manages pointers for a packet buffer which is a ring buffer ... ," but asserts that Graziano supplies the missing subject matter. Graziano discloses a communication device and method which includes a means for receiving and transmitting isochronous and packet data ... and is a workstation connected to a local area network. The device includes an FDDI RAM buffer and a queue manager. However, Applicants respectfully submit that Graziano does not disclose or suggest a bus reset or a page table with first or second addresses. Thus, Graziano does not disclose or suggest the subject matter of claim 1 and 19.

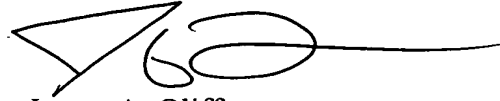
Accordingly, Applicants respectfully submit that Matsunaga, Bastiani, Ogawa and Graziano individually or in combination disclose or suggest the subject matter of claim 1 and 19.

Claims 5, 7, 9, 11 and 13 ultimately depend from claim 1. Bastiani, Ogawa and Graziano individually or in combination disclose or suggest the deficiencies of Matsunaga, as discussed above. Therefore, claims 5, 7, 9, 11 and 13 are allowable at least for the reasons discussed above, as well as for the additional features recited therein. Withdrawal of the rejections to claims 5, 7, 9, 11 and 13 under 35 U.S.C. §103(a) are respectfully solicited.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of the claims are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'James A. Oliff', with a long horizontal line extending to the right.

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